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CONFIDENTIAL7th December, 1959COCOM DOCUMENT No. 3807CO-ORDINATING COMMITTEEEXPORT OF QUARTZ CRYSTALS TO POLANDMEMORANDUM BY THE DANISH DELEGATION

The Danish authorities have been asked to approve the export to Poland of 4927 Quartz Crystal Units to the value of \$20.435 which are covered by the definition of Item 1587.

All the crystals are required for use for VHF radio-telephones for civilian services. The importer is the Polish state company CENTROMOR. The usual assurances against re-export will be obtained. .

Technical details are as follows:-

A. Radio Quartz in holder HC-6/U

Frequency tolerance $\pm 0,005 \%$

Temperature range $\div 50^{\circ} - + 90^{\circ} \text{ C.}$

Parallel resonance

Capacity 32 pF.

1.	Crystal frequency	1181,25 kc/s	qty.	1
2.	"	" 1187,50 "	"	6
3.	"	" 1193,75 "	"	8
4.	"	" 1200,00 "	"	3
5.	"	" 1206,25 "	"	1
6.	"	" 1250,00 "	"	2
7.	"	" 1264,06 "	"	2
8.	"	" 1285,94 "	"	279
9.	"	" 1295,31 "	"	279
10.	"	" 1290,62 "	"	279
11.	"	" 1300,00 "	"	2
12.	"	" 1304,68 "	"	2
13.	"	" 1415,625 "	"	29
14.	"	" 1421,875 "	"	29
15.	"	" 1426,563 "	"	29
16.	"	" 7750,00 "	"	250

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17.	Crystal frequency	7912,50	kc/s	qty.	1
18.	"	"	7962,50	"	6
19.	"	"	8012,50	"	8
20.	"	"	8062,50	"	3
21.	"	"	8112,50	"	2
22.	"	"	8462,50	"	2
23.	"	"	8575,00	"	2
24.	"	"	8750,00	"	279
25.	"	"	8787,50	"	279
26.	"	"	8825,00	"	279
27.	"	"	8862,50	"	2
28.	"	"	8900,00	"	2
29.	"	"	9787,50	"	29
30.	"	"	9837,50	"	29
31.	"	"	9875,00	"	29

pos. 1 to 5 are for service cars for electricity power station in Krakow.

pos. 6 to 7 are for Salvage service at the mines in Zakopane.

pos. 8 to 10 are for fire brigade in Szczecin.

pos. 11 to 12 are for the iron mines.

pos. 13 to 15 are for electricity power station.

pos. 16 is an intermediate frequency and

pos. 17 to 31 are receiver crystals corresponding to the above named transmitter crystals.

B. Radio Quartz in holder HC-6/U.

Frequency tolerance $\pm 0,002$ for $+ 75^{\circ}$ C.Temperature range $+ 70^{\circ} - + 80^{\circ}$ C.

Parallel resonance.

Capacity 32 pF.

1.	Crystal frequency	8477,78	kc/s	qty.	2
2.	"	"	8683,33	"	13
3.	"	"	8700,00	"	16
4.	"	"	9705,55	"	5
5.	"	"	8711,11	"	5

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6.	Crystal frequency	8722,22 kc/s	qty.	3
7.	" "	8736,11 "	"	5
8.	" "	8738,89 "	"	3
9.	" "	8741,67 "	"	16
10.	" "	8744,44 "	"	6
11.	" "	8755,55 "	"	30
12.	" "	8766,67 "	"	13
13.	" "	8769,44 "	"	16
14.	" "	8777,78 "	"	44
15.	" "	8788,87 "	"	19
16.	" "	8791,67 "	"	11
17.	" "	8808,33 "	"	5
18.	" "	8816,67 "	"	6
19.	" "	9462,50 "	"	40
20.	" "	9468,05 "	"	40
21.	" "	9473,61 "	"	40
22.	" "	9479,17 "	"	40
23.	" "	35.475,00 "	"	2
24.	" "	36.400,00 "	"	13
25.	" "	36.475,00 "	"	11
26.	" "	36.500,00 "	"	5
27.	" "	36.525,00 "	"	5
28.	" "	36.575,00 "	"	3
29.	" "	36.637,50 "	"	5
30.	" "	36.650,00 "	"	3
31.	" "	36.662,50 "	"	16
32.	" "	36.675,00 "	"	6
33.	" "	36.725,00 "	"	30
34.	" "	36.775,00 "	"	13
35.	" "	36.787,50 "	"	16
36.	" "	36.825,00 "	"	44
37.	" "	36.875,00 "	"	19
38.	" "	36.887,50 "	"	11
39.	" "	36.962,50 "	"	5
40.	" "	37.000,00 "	"	6
41.	" "	39.906,25 "	"	40
42.	" "	39.931,25 "	"	40

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43.	Crystal frequency	39.956,25 kc/s	qty.	40
44.	"	" 39.981,25 "	"	40

pos. 1 is for radio and television service.
 pos. 2 to 6 are for ships radio telephone.
 pos. 7 to 18 are for fire brigade.
 pos. 19 to 22 are for coal mines in Katowice.
 pos. 23 to 44 are the receiver crystals corresponding to
 above named transmitter crystals.

C. Radio Quartz in holder HC-6/U.

Frequency tolerance $\pm 0,002$ %.

Temperature range + 70° - + 80° C.

Parallel resonance.

Capacity 32 pF.

1.	Crystal frequency	1750,00 kc/s	qty.	135
2.	"	" 1755,55 "	"	135
3.	"	" 1758,33 "	"	13
4.	"	" 1761,11 "	"	148
5.	"	" 1766,67 "	"	148
6.	"	" 1775,00 "	"	13
7.	"	" 2100,00 "	"	9
8.	"	" 2111,11 "	"	21
9.	"	" 2122,22 "	"	34
10.	"	" 2127,78 "	"	2
11.	"	" 2133,33 "	"	28
12.	"	" 2138,89 "	"	14
13.	"	" 2144,44 "	"	16
14.	"	" 2150,00 "	"	5
15.	"	" 2155,55 "	"	2
16.	"	" 2161,11 "	"	3
17.	"	" 2172,22 "	"	6
18.	"	" 2177,78 "	"	3
19.	"	" 2188,89 "	"	4
20.	"	" 2194,44 "	"	3
21.	"	" 2200,00 "	"	6

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22.	Crystal frequency	2205,55 kc/s	qty.	9
23.	"	2286,11 "	"	22
24.	"	2294,44 "	"	22
25.	"	2297,22 "	"	10
26.	"	2302,78 "	"	22
27.	"	11.165,00 "	"	350

pos. 1 to 6 is for public health service.
 pos. 7 to 15 are for electricity power station.
 pos. 16 to 26 are for railway service Gdansk - Poznan - Krakow.
 pos. 27 is an intermediate frequency.

D. Radio Quartz in holder HC-6/U.

Frequency tolerance $\pm 0,005$ %.Temperature range $\div 50^{\circ} - + 90^{\circ}$ C.

Parallel resonance.

1.	Crystal frequency	28.200,00 kc/s	qty.	3
2.	"	28.400,00 "	"	6
3.	"	28.500,00 "	"	3
4.	"	28.600,00 "	"	1
5.	"	28.700,00 "	"	7
6.	"	28.800,00 "	"	3
7.	"	28.900,00 "	"	9
8.	"	29.000,00 "	"	9
9.	"	30.450,00 "	"	22
10.	"	30.600,00 "	"	22
11.	"	30.650,00 "	"	10
12.	"	30.750,00 "	"	22
13.	"	42.200,00 "	"	135
14.	"	42.300,00 "	"	135
15.	"	42.350,00 "	"	13
16.	"	42.400,00 "	"	148
17.	"	42.500,00 "	"	148
18.	"	42.650,00 "	"	13
19.	"	48.500,00 "	"	9

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20.	Crystal frequency	48.700,00	kc/s	qty.	21
21.	"	"	48.900,00	"	34
22.	"	"	49.000,00	"	2
23.	"	"	49.100,00	"	28
24.	"	"	49.200,00	"	14
25.	"	"	49.300,00	"	16
26.	"	"	49.400,00	"	5
27.	"	"	49.500,00	"	2

pos. 1 to 12 are for railway service.

pos. 13 to 18 are for public health service.

pos. 19 to 27 are for electricity power station.

The export of quartz crystals for civilian services has previously been approved by the Committee (See COCOM documents nos. 2590, 2868, 3093, 3330, 3596 and 3723).

Because of the abovementioned civilian end-use, the Danish authorities consider the export of these crystals as normal and wish to authorise this export under the special Polish exceptions procedure.

Owing to the fact that this request is rather urgent, the Danish Delegation would be most grateful if the views of Member Governments could be available as soon as possible.